SNL05

National Nuclear Security Administration
Sandia Site Office
P.O. Box 5400
Albuquerque, New Mexico 87185-5400

AUG 30 2005

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

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SEP 2005
NMED Hazardous Bureau

Mr James Bearzi, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Road East, Building 1
Santa Fe, NM 87505

Dear Mr. Bearzi,

On behalf of the Department of Energy (DOE) and Sandia Corporation, DOE is submitting the enclosed responses to the New Mexico Environment Department's (NMED's) Request for Supplemental Information, Environmental Restoration Project Supplemental and No Further Action Information for Solid Waste Management Units 46 and 196 dated October 2004, Sandia National Laboratories, New Mexico, EPA ID No. NM589011518, HWB-SNL-99-006, 99-021, and 99-01, dated July 19, 2005.

If you have any questions, please contact John Gould at (505) 845-6089.

Sincerely,

Patty Wagner

Patty Wagner
Manager

Enclosure

cc w/enclosure:
W. Moats, NMED-HWB (via Certified Mail)
L. King, EPA, Region 6 (via Certified Mail)
M. Gardipe, NNSA/SC/ERD
J. Volkerding, DOE-NMED-OB (2 copies)

cc w/o enclosure:
J. Estrada, NNSA/SSO, MS 0184
F. Nimick, SNL, MS 1089
P. Freshour, SNL, MS 1089
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M. J. Davis, SNL, MS 1089
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B. Langkopf, SNL, MS 1087
S. Griffith, SNL, MS 1087

SNL 1115

AOP 95-45, 06

CERTIFICATION STATEMENT FOR APPROVAL AND FINAL RELEASE OF DOCUMENTS

Document title: **Responses to NMED Request for Supplemental Information Environmental Restoration Project Supplemental and No Further Action Information for Solid Waste Management Units 46 and 196, dated August 2005**

Document authors: Stacy Griffith, Dept. 6146

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signature: Pete B. Davies — 8/10/05

Peter B. Davies
Director
Geoscience & Environment Center
Division 6100
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185
Operator

Date

and

Signature: Patty Wagner — 8-29-05

Patty Wagner
Manager
U.S. Department of Energy
National Nuclear Security Administration
Sandia Site Office
Owner and Co-Operator

Date

Sandia National Laboratories
Albuquerque, New Mexico
August 2005

Environmental Restoration Project
Responses to NMED Request for Supplemental Information And Certificates of Completion: Environmental Restoration Project Supplemental and No Further Action Information for Various Sold Waste Management Units (SWMUs 1, 78, 196, 45, and 46); dated October 2004
Sandia National Laboratories, EPA ID#NM 5890110518
HWB-SNL-99-006, 99-021, AND 99-01

INTRODUCTION

This document responds to the July 19, 2005 Request for Supplemental Information (RSI) letter from William P. Moats of the State of New Mexico Environment Department (NMED) Hazardous Water Bureau (HWB) to the U.S. Department of Energy and Sandia Corporation (Sandia). A response to this RSI is due within 45 days of receipt of the letter by NMED, or by September 2, 2005.

In this document, the NMED comments (in bold font) are restated in the same order in which they were provided in the RSI. Following each comment, the "Response" introduces the U.S. Department of Energy/Sandia reply (in normal font style).

1. **NMED will not issue a Certificate for Corrective Action Complete for SWMU 196 until the cistern (a large seepage pit) is backfilled in accordance with the Septic System Abandonment Regulations at 20.7.3.410 NMAC. The DOE/Sandia Corporation should inform the NMED in writing as soon as possible after the backfilling of the cistern has been accomplished. The NMED will then reconsider issuance of a Certificate of Completion for SWMU 196 after said work is completed.**

Response: SWMU 196, the Building 6597 Cistern, will be backfilled to fulfill the requirement by NMED as stated in Comment 1. DOE/Sandia will inform the NMED in writing when this task has been completed.

2. **NMED requires additional ground water information to complete its review of the RCRA Facility Investigation (RFI) for SWMU 46. Please provide a table of all available ground-water data concerning the analysis of trichloroethene (TCE) and nitrate (and/or nitrate plus nitrite) for monitoring wells TJA-3, TJA-7, TJA-6, WYO-1, WYO-2, WYO-3, WYO-4, TA2-SW1-320, and TA2-W-19. Report also on the table for each sampling event for each well which of the data are representative of micropurge sampling, and which data are representative of conventional sampling and purging techniques.**

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under Contract DE-AC04-94AL85000.

Response: Please note that SWMU 46 was not investigated as part of a RCRA Facility Investigation (RFI). The first proposal for No Further Action was in June 1995, followed by two Notice of Deficiency letters (July 1996 and October 2004), and two Request for Supplemental Information letters (October 1999 and July 2005).

Enclosed in Annex A are tables of groundwater data for TCE (detections only), nitrate, and nitrate plus nitrite (all sample results) for monitoring wells TJA-3, TJA-7, TJA-6, WYO-1, WYO-2, WYO-3, WYO-4, TA2-SW1-320, and TA2-W-19. Information regarding the sampling and purging (method micropurge [low-flow] sampling or conventional sampling) is given for each well and each sampling event.

The tables also include the following information for each well: the well completion date, the aquifer system that it is completed in (perched or regional), the approximate distance from SWMU 46, and the relative location of the well to SWMU 46 regarding the direction of groundwater flow (upgradient, downgradient, or cross-gradient).

Enclosed in Annex B are potentiometric maps of each aquifer system for reference. The maps include the location of SWMU 46 and the groundwater monitoring wells in the area. Any additional information (beyond items requested above) can be found in the Corrective Measures Evaluation Work Plan Tijeras Arroyo Groundwater (July 2004), and the Tijeras Arroyo Groundwater Investigation Work Plan (June 2003).

ANNEX A
GROUNDWATER ANALYTICAL DATA RESULTS

Summary of Detected Trichloroethene Results
Tijeras Arroyo Groundwater Investigation

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (µg/L)	MDL[b] (µg/L)	PQL[c] (µg/L)	MCL[d] (µg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TA2-W-19	05740	Conventional	28-Aug-96	1.00	0.50	2.0	5.0	J	None	EPA8260
Well completed 9-Nov-95 in the perched aquifer.	05740	Conventional	28-Aug-96	1.00	0.50	2.0	5.0	J	None	EPA8260
	05740	Conventional	28-Aug-96	1.20	0.50	2.0	5.0	J	None	EPA8260
	06160	Conventional	22-Jan-97	2.60	0.50	2.0	5.0		None	EPA8260
Distance from SWMU 46 is approximately 0.5 mile, cross-gradient.	06160	Conventional	22-Jan-97	2.90	0.50	2.0	5.0		None	EPA8260
	06178	Conventional	23-Jan-97	4.40	0.50	2.0	5.0		None	EPA8260
	06178	Conventional	23-Jan-97	**5.20**	0.50	2.0	5.0		None	EPA8260
	06177	Low-flow	11-Mar-97	1.40	0.50	2.0	5.0	J	None	EPA8260
	06319	Low-flow	10-Jun-97	2.70	0.50	2.0	5.0		None	EPA8260
Conventional sampling method prior to Mar-97, and Jun-03 to present.	06974	Low-flow	29-Sep-97	1.90	0.50	2.0	5.0	J		EPA8260
	06956	Low-flow	10-Dec-97	2.40	0.50	2.0	5.0		None	EPA8260
	510395	Low-flow	06-Mar-98	2.50	0.50	2.0	5.0			EPA8260
	600177	Low-flow	15-Jun-98	2.70	0.50	2.0	5.0			EPA8260
	600177	Low-flow	15-Jun-98	2.80	0.50	2.0	5.0			EPA8260
	600642	Low-flow	16-Sep-98	2.80	0.50	2.0	5.0			EPA8260
	600642	Low-flow	16-Sep-98	2.90	0.50	2.0	5.0			EPA8260
	600924	Low-flow	02-Dec-98	3.10	0.50	2.0	5.0			EPA8260
	600924	Low-flow	02-Dec-98	3.40	0.50	2.0	5.0			EPA8260
	601262	Low-flow	09-Mar-99	3.20	0.50	2.0	5.0			EPA8260
	602286	Low-flow	24-Sep-99	1.80	0.50	2.0	5.0	J		EPA8260
	602473	Low-flow	15-Mar-00	1.90	0.50	2.0	5.0	J		EPA8260
	602705	Low-flow	04-Jan-01	2.30	0.50	2.0	5.0			EPA8260
	603483	Low-flow	08-Mar-01	1.70	0.20	0.8	5.0			EPA8260
	604101	Low-flow	06-Jul-01	0.960	0.10	0.4	5.0			EPA8260
	604777	Low-flow	02-Oct-01	1.40	0.10	0.4	5.0			EPA8260
	604979	Low-flow	21-Nov-01	1.40	0.10	0.4	5.0			EPA8260
	606806	Conventional	23-Sep-03	3.77	0.36	1.0	5.0			SW846 8260
	606834	Conventional	07-Oct-03	4.54	0.36	1.0	5.0			SW846 8260
	607090	Conventional	13-Jan-04	4.19	0.36	1.0	5.0			SW846 8260
	607406	Conventional	27-Apr-04	**5.20**	0.06	5.0	5.0			8260B
	607406	Conventional	27-Apr-04	**5.10**	0.06	5.0	5.0			8260B
	607685	Conventional	27-Jul-04	4.20	0.06	5.0	5.0	J		8260B
	607921	Conventional	04-Oct-04	4.56	0.36	1.0	5.0		J	SW846 8260
	607921	Conventional	04-Oct-04	4.65	0.36	1.0	5.0		J	SW846 8260
	608123	Conventional	04-Jan-05	**5.32**	0.36	1.0	5.0			SW846 8260
	608123	Conventional	04-Jan-05	**5.60**	0.36	1.0	5.0			SW846 8260
TJA-3	602712	Low-flow	08-Jan-01	0.510	0.50	2.0	5.0	J		EPA8260
Well completed 31-Aug-98 in the regional aquifer.	603489	Low-flow	28-Mar-01	0.860	0.20	0.8	5.0			EPA8260
	603489	Low-flow	28-Mar-01	0.870	0.20	0.8	5.0			EPA8260
	603955	Low-flow	28-Mar-01	0.880	0.16	1.0	5.0	J	None	SW846 8260
This well is located within the SWMU 46 boundary.	604107	Low-flow	05-Jul-01	1.20	0.10	0.4	5.0			EPA8260
	604783	Low-flow	03-Oct-01	0.830	0.10	0.4	5.0			EPA8260

Refer to footnotes at end of tables.

Summary of Detected Trichloroethene Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (µg/L)	MDL[b] (µg/L)	PQL[c] (µg/L)	MCL[d] (µg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TJA-3 (con't) Conventional sampling method prior to Mar-99, and Jun-03 to present, low-flow from Mar-99 to Jun-03.	604783	Low-flow	03-Oct-01	0.790	0.10	0.4	5.0			EPA8260
	604806	Low-flow	03-Oct-01	0.862	0.16	1.0	5.0	J	None	SW846 8260
	604985	Low-flow	01-Dec-01	0.970	0.10	0.4	5.0			EPA8260
	605117	Low-flow	03-Dec-01	1.39	0.31	1.0	5.0		None	SW846 8260
	605328	Low-flow	20-Mar-02	0.639	0.31	1.0	5.0	J		SW846 8260
TJA-6 Well completed 04-Feb-01 in the regional aquifer. Distance from SWMU 46 is approximately 350 ft, downgradient. Low-flow sampling from Mar-01 to Jun-03, conventional Jul-03 to present.	607424	Conventional	22-Apr-04	1.20	0.06	5.0	5.0	B, J	5.0U, B	8260B
TJA-7 Well complete in 07-Mar-01 in the perched aquifer. This well is located within the SWMU 46 boundary. Low-flow sampling from Mar-01 to Jun-03, conventional Jul-03 to present.	606633	Conventional	12-Aug-03	1.46	0.36	1.0	5.0			SW846 8260
	607112	Conventional	22-Jan-04	0.430	0.36	1.0	5.0	J	J	SW846 8260
	607707	Conventional	06-Aug-04	0.530	0.06	5.0	5.0	J		8260B
	607707	Conventional	06-Aug-04	0.550	0.06	5.0	5.0	J		8260B
	608591	Conventional	13-May-05	0.355	0.25	1.0	5.0	J	J	SW846 8260
WYO-1 Well completed in 27-Aug-95 in the regional aquifer. Plugged and abandoned Jul-01. Distance from SWMU 46 was over 0.5 mile and was upgradient. Conventional sampling from Aug-95 to Mar-97, low-flow sampling from Mar-97 to Jul-01.	04704	Conventional	24-Jan-96	4.00	0.50	NR	5.0		None	8260
	04704	Conventional	24-Jan-96	4.00	5.0	NR	5.0	J	None	8260
	05738	Conventional	26-Aug-96	**5.60**	0.50	2.0	5.0		None	EPA8260
	06110	Conventional	21-Jan-97	**7.20**	0.50	2.0	5.0		None	EPA8260
	06160	Conventional	22-Jan-97	**8.00**	0.50	2.0	5.0		None	EPA8260
	06160	Conventional	22-Jan-97	**7.20**	0.50	2.0	5.0		None	EPA8260
	06178	Conventional	23-Jan-97	**6.60**	0.50	2.0	5.0		None	EPA8260
	06178	Conventional	23-Jan-97	**8.30**	0.50	2.0	5.0		None	EPA8260
	06162	Conventional	27-Jan-97	3.60	0.50	2.0	5.0		None	EPA8260
	06167	Low-flow	10-Mar-97	**5.00**	0.50	2.0	5.0		None	EPA8260
	06167	Low-flow	10-Mar-97	**5.20**	0.50	2.0	5.0		None	EPA8260
	06098	Low-flow	10-Mar-97	**6.50**	0.50	NR	5.0		None	8260
	06144	Low-flow	05-Jun-97	**8.64**	1.0	NR	5.0		None	8260
	06144	Low-flow	05-Jun-97	**8.42**	1.0	NR	5.0		None	8260
	06681	Low-flow	05-Jun-97	**5.60**	0.50	2.0	5.0		None	EPA8260
	06322	Low-flow	01-Oct-97	2.90	0.50	2.0	5.0			EPA8260
	510148	Low-flow	09-Dec-97	**5.10**	0.50	2.0	5.0			EPA8260
	510148	Low-flow	09-Dec-97	**5.40**	0.50	2.0	5.0			EPA8260

Refer to footnotes at end of tables.

Summary of Detected Trichloroethene Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (µg/L)	MDL[b] (µg/L)	PQL[c] (µg/L)	MCL[d] (µg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
	510385	Low-flow	05-Mar-98	**7.50**	0.40	1.0	5.0		P2	EPA 8260
WYO-1 (con't)	510385	Low-flow	05-Mar-98	**7.70**	0.40	1.0	5.0		P2	EPA 8260
	510422	Low-flow	05-Mar-98	**6.30**	0.03	1.0	5.0	H	R	EPA 8260
	510422	Low-flow	05-Mar-98	**7.90**	0.03	1.0	5.0			EPA 8260
	510386	Low-flow	05-Mar-98	**7.00**	0.50	2.0	5.0			EPA8260
	510386	Low-flow	05-Mar-98	**7.20**	0.50	2.0	5.0			EPA8260
	510388	Low-flow	05-Mar-98	**6.80**	0.50	2.0	5.0			EPA8260
	600164	Low-flow	10-Jun-98	**6.30**	0.50	2.0	5.0			EPA8260
	600626	Low-flow	14-Sep-98	**6.80**	0.50	2.0	5.0			EPA8260
	600939	Low-flow	01-Dec-98	**6.10**	0.50	2.0	5.0		J, P1	EPA8260
	601268	Low-flow	05-Mar-99	**6.10**	0.50	2.0	5.0			EPA8260
	601489	Low-flow	14-Jul-99	4.80	0.50	2.0	5.0			EPA8260
	601490	Low-flow	14-Jul-99	**5.30**	0.50	1.0	5.0		None	EPA 8260
	602316	Low-flow	16-Sep-99	**5.60**	0.50	2.0	5.0			EPA8260
	602316	Low-flow	16-Sep-99	**6.30**	0.50	2.0	5.0			EPA8260
	602317	Low-flow	16-Sep-99	**5.10**	0.50	1.0	5.0		None	EPA 8260
	602438	Low-flow	01-Dec-99	**5.90**	0.50	2.0	5.0		P2	EPA8260
	602483	Low-flow	01-Jun-00	**5.68**	0.15	1.0	5.0		UJ	SW846 8260
	602715	Low-flow	12-Jan-01	**6.00**	0.50	2.0	5.0			EPA8260
	603492	Low-flow	19-Mar-01	4.70	0.20	0.8	5.0			EPA8260
	604112	Low-flow	21-Jun-01	4.80	0.10	0.4	5.0			EPA8260
WYO-2	04704	Conventional	24-Jan-96	3.70	0.50	NR	5.0		None	8260
	04704	Conventional	24-Jan-96	3.50	0.50	NR	5.0	J	None	8260
Well completed in 27-Aug-95 in the perched aquifer. Plugged and abandoned Jul-01.	04609	Conventional	24-Jan-96	**6.70**	0.50	2.0	5.0		None	EPA8260
	05738	Conventional	26-Aug-96	3.70	0.50	2.0	5.0		None	EPA8260
	06167	Low-flow	10-Mar-97	**6.10**	0.50	2.0	5.0		None	EPA8260
	06167	Low-flow	10-Mar-97	**6.30**	0.50	2.0	5.0		None	EPA8260
	06098	Low-flow	10-Mar-97	**7.50**	0.50	NR	5.0		None	8260
Distance from SWMU 46 was over 0.5 mile and was upgradient.	06681	Low-flow	05-Jun-97	**6.60**	0.50	2.0	5.0		None	EPA8260
	06322	Low-flow	01-Oct-97	**5.60**	0.50	2.0	5.0			EPA8260
	06325	Low-flow	01-Oct-97	**7.40**	1.0	2.0	5.0			EPA 8260
	510150	Low-flow	09-Dec-97	**5.90**	0.50	2.0	5.0			EPA8260
Conventional sampling from Aug-95 to Mar-97, low-flow sampling from Mar-97 to Jul-01.	510395	Low-flow	06-Mar-98	**6.40**	0.50	2.0	5.0			EPA8260
	600167	Low-flow	10-Jun-98	**7.00**	0.50	2.0	5.0			EPA8260
	600629	Low-flow	14-Sep-98	**6.30**	0.50	2.0	5.0			EPA8260
	600942	Low-flow	01-Dec-98	**7.50**	0.50	2.0	5.0		J, P1	EPA8260
	601265	Low-flow	05-Mar-99	**7.20**	0.50	2.0	5.0			EPA8260
	601493	Low-flow	19-Jul-99	**5.90**	0.60	1.0	5.0	B	None	EPA 8260
	601494	Low-flow	19-Jul-99	**5.20**	0.50	2.0	5.0			EPA8260
	602301	Low-flow	16-Sep-99	**6.90**	0.50	2.0	5.0			EPA8260
	602441	Low-flow	01-Dec-99	**6.90**	0.50	2.0	5.0		P2	EPA8260
	602441	Low-flow	01-Dec-99	**6.60**	0.50	2.0	5.0		P2	EPA8260
	602442	Low-flow	01-Dec-99	**6.60**	0.60	1.0	5.0		None	EPA 8260
	602716	Low-flow	16-Jan-01	**5.90**	0.50	2.0	5.0			EPA8260

Refer to footnotes at end of tables.

Summary of Detected Trichloroethene Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (µg/L)	MDL[b] (µg/L)	PQL[c] (µg/L)	MCL[d] (µg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
	602716	Low-flow	16-Jan-01	**6.50**	0.50	2.0	5.0			EPA8260
WYO-2 (con't)	602717	Low-flow	16-Jan-01	**5.50**	0.16	1.0	5.0		None	SW846 8260
	604113	Low-flow	21-Jun-01	**5.30**	0.10	0.4	5.0			EPA8260
WYO-4	605066	Low-flow	25-Oct-01	0.240	0.10	0.4	5.0	J	A, J	EPA8260
	605066	Low-flow	25-Oct-01	1.40	0.10	0.4	5.0		A, J	EPA8260
Well was completed 22-Jun-01 in the perched aquifer.	604991	Low-flow	28-Nov-01	4.00	0.10	0.4	5.0			EPA8260
	604991	Low-flow	28-Nov-01	4.50	0.10	0.4	5.0			EPA8260
	605121	Low-flow	28-Nov-01	**7.23**	0.31	1.0	5.0		None	SW846 8260
	605320	Low-flow	03-Apr-02	4.90	0.40	1.6	5.0			EPA8260
Distance from SWMU 46 is over 0.5 mile and is upgradient.	605320	Low-flow	03-Apr-02	**5.30**	0.40	1.6	5.0			EPA8260
	606638	Conventional	14-Aug-03	**6.57**	0.36	1.0	5.0			SW846 8260
	606638	Conventional	14-Aug-03	**6.39**	0.36	1.0	5.0			SW846 8260
	606852	Conventional	03-Nov-03	**6.06**	0.36	1.0	5.0		J	SW846 8260
	606852	Conventional	03-Nov-03	**7.05**	0.36	1.0	5.0		J	SW846 8260
Low-flow sampling from Aug-01 to Jun-03, conventional from Jul-03 to present.	607119	Conventional	03-Feb-04	**6.99**	0.36	1.0	5.0		J	SW846 8260
	607119	Conventional	03-Feb-04	**6.60**	0.36	1.0	5.0		J	SW846 8260
	607433	Conventional	30-Apr-04	**7.70**	0.06	5.0	5.0			8260B
	607433	Conventional	30-Apr-04	**7.60**	0.06	5.0	5.0			8260B
	607715	Conventional	03-Aug-04	**6.70**	0.09	5.0	5.0			8260B
	607715	Conventional	03-Aug-04	**6.00**	0.09	5.0	5.0			8260B
	607950	Conventional	06-Oct-04	**7.35**	0.36	1.0	5.0			SW846 8260
	607950	Conventional	06-Oct-04	**7.43**	0.36	1.0	5.0			SW846 8260
	608142	Conventional	11-Jan-05	**5.66**	0.36	1.0	5.0			SW846 8260
	608142	Conventional	11-Jan-05	**6.16**	0.36	1.0	5.0			SW846 8260
	608594	Conventional	03-May-05	4.26	0.25	1.0	5.0		J	SW846 8260

Refer to footnotes at end of tables.

Summary of Nitrate Results
Tijeras Arroyo Groundwater Investigation

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TA2-SW1-320	05251	Conventional	27-Aug-96	**29.0**	0.068	0.22	10		None	HACH_NO3
	06169	Low-flow	13-Mar-97	**28.0**	0.180	0.60	10		None	HACH_NO3
Well was completed 30-Nov-92 in the perched aquifer.	06317	Low-flow	09-Jun-97	**21.0**	0.280	1.12	10		None	HACH_NO3
	06317	Low-flow	09-Jun-97	**28.0**	0.280	1.12	10		None	HACH_NO3
	06929	Low-flow	30-Sep-97	**23.0**	0.300	1.10	10			HACH_NO3
	510136	Low-flow	08-Dec-97	**22.0**	0.280	1.10	10			HACH_NO3
Distance from SWMU 46 is approximately 0.5 mile and is upgradient.	510395	Low-flow	06-Mar-98	**26.0**	0.560	2.20	10			HACH_NO3
	600186	Low-flow	15-Jun-98	**26.5**	0.900	3.50	10			HACH_NO3
	600623	Low-flow	10-Sep-98	**21.9**	0.550	2.20	10			HACH_NO3
	600918	Low-flow	30-Nov-98	**20.0**	0.550	2.20	10			HACH_NO3
Conventional sampling prior to Mar-97, and from Jun-03 to present, low-flow Mar-97 to Jun-03.	601295	Low-flow	09-Mar-99	**26.0**	0.550	2.20	10			HACH_NO3
	601456	Low-flow	20-Jul-99	**22.0**	0.700	2.80	10			HACH_NO3
	602280	Low-flow	13-Sep-99	**27.0**	0.700	2.80	10			HACH_NO3
	602405	Low-flow	19-Nov-99	**44.0**	1.40	5.60	10			HACH_NO3
	602471	Low-flow	12-Apr-00	**30.0**	1.40	5.60	10			HACH_NO3
	602720	Low-flow	12-Jan-01	**36.0**	3.50	14.0	10			HACH_NO3
	603481	Low-flow	21-Mar-01	**36.0**	3.50	14.0	10			HACH_NO3
	604099	Low-flow	05-Jul-01	**34.0**	3.50	14.0	10			HACH_NO3
	604775	Low-flow	25-Sep-01	**29.0**	3.50	14.0	10			HACH_NO3
	604977	Low-flow	06-Dec-01	**29.0**	3.50	14.0	10		None	HACH_NO3
	605306	Low-flow	26-Mar-02	**26.0**	0.200	0.80	10			Nitrate_EP
	606615	Conventional	24-Jul-03	**22.9**	0.171	0.50	10	H	HT, J	SW846 9056
	606830	Conventional	11-Nov-03	**22.4**	0.171	0.50	10	H	HT, J	SW846 9056
	607085	Conventional	29-Jan-04	**23.0**	0.270	0.50	10			EPA 300.0
	607402	Conventional	14-MAY-04	**22.0**	0.270	0.50	10			EPA 300.0
	607680	Conventional	27-Jul-04	**24.0**	0.270	0.50	10		A2, J	EPA 300.0
	607916	Conventional	04-Oct-04	**25.0**	0.270	0.50	10			EPA 300.0
TA2-W-19	05740	Conventional	28-Aug-96	6.70	0.068	0.22	10		None	HACH_NO3
Well completed 9-Nov-95 in the perched aquifer.	05740	Conventional	28-Aug-96	9.00	0.068	0.22	10		None	HACH_NO3
	06177	Low-flow	11-Mar-97	5.90	0.090	0.30	10		None	HACH_NO3
	06319	Low-flow	10-Jun-97	7.30	0.280	1.12	10		None	HACH_NO3
Distance from SWMU 46 is approximately 0.5 mile, cross-gradient.	06974	Low-flow	29-Sep-97	6.70	0.120	0.44	10			HACH_NO3
	06956	Low-flow	10-Dec-97	6.30	0.280	1.10	10		None	HACH_NO3
	510395	Low-flow	06-Mar-98	5.40	0.110	0.43	10			HACH_NO3
	600177	Low-flow	15-Jun-98	8.40	0.180	0.70	10			HACH_NO3
Conventional sampling method prior to Mar-97, and Jun-03 to present, low-flow from Mar-97 to Jun-03.	600177	Low-flow	15-Jun-98	8.10	0.180	0.70	10			HACH_NO3
	600642	Low-flow	16-Sep-98	8.40	0.550	2.20	10			HACH_NO3
	600642	Low-flow	16-Sep-98	8.80	0.550	2.20	10			HACH_NO3
	600924	Low-flow	02-Dec-98	6.70	0.220	0.88	10			HACH_NO3
	600924	Low-flow	02-Dec-98	7.40	0.220	0.88	10			HACH_NO3
	601262	Low-flow	09-Mar-99	9.10	0.220	0.88	10			HACH_NO3
	602286	Low-flow	24-Sep-99	8.80	0.280	1.10	10			HACH_NO3
	602411	Low-flow	30-Nov-99	9.90	0.280	1.10	10			HACH_NO3
	602473	Low-flow	15-Mar-00	7.80	0.700	2.80	10			HACH_NO3

Refer to footnotes at end of tables.

Summary of Nitrate Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TA2-W-19 (con't)	602705	Low-flow	04-Jan-01	**13.0**	1.40	5.60	10			HACH_NO3
	603483	Low-flow	08-Mar-01	**24.0**	1.80	7.00	10			HACH_NO3
	604101	Low-flow	06-Jul-01	7.20	1.80	7.00	10			HACH_NO3
	604777	Low-flow	02-Oct-01	7.80	0.700	2.80	10			HACH_NO3
	604979	Low-flow	21-Nov-01	3.80	0.350	1.40	10		None	HACH_NO3
	605308	Low-flow	18-Mar-02	8.80	0.200	0.80	10		None	Nitrate_EP
	606619	Conventional	04-Aug-03	9.58	0.0341	0.10	10	H		SW846 9056
	606834	Conventional	07-Oct-03	9.35	0.0682	0.20	10	H	HT, J	SW846 9056
	607091	Conventional	13-Jan-04	9.20	NR	0.10	10			EPA 300.0
	607408	Conventional	27-Apr-04	9.30	0.054	0.10	10			EPA 300.0
	607408	Conventional	27-Apr-04	9.30	0.054	0.10	10			EPA 300.0
	607686	Conventional	27-Jul-04	9.40	0.054	0.10	10		A2, J	EPA 300.0
	607922	Conventional	04-Oct-04	10.0	0.054	0.10	10			EPA 300.0
	607922	Conventional	04-Oct-04	10.0	0.054	0.10	10			EPA 300.0
TJA-3	600671	Conventional	25-Aug-98	3.30	0.110	0.44	10			HACH_NO3
Well completed 31-Aug-98 in	600673	Conventional	01-Sep-98	1.00	0.110	0.44	10			HACH_NO3
the regional aquifer.	600674	Conventional	10-Sep-98	1.90	0.110	0.44	10		None	HACH_NO3
	600980	Conventional	07-Dec-98	3.30	0.110	0.44	10			HACH_NO3
	600955	Conventional	15-Dec-98	2.80	0.110	0.44	10		A2, J	HACH_NO3
This well is located within the	601277	Low-flow	08-Mar-99	2.00	0.110	0.44	10			HACH_NO3
SWMU 46 boundary.	601480	Low-flow	16-Jun-99	2.20	0.110	0.44	10			HACH_NO3
	602307	Low-flow	20-Sep-99	2.30	0.140	0.56	10			HACH_NO3
Conventional sampling	602429	Low-flow	29-Nov-99	3.50	0.140	0.56	10			HACH_NO3
method prior to Mar-99, and	602480	Low-flow	11-Apr-00	2.70	0.140	0.56	10			HACH_NO3
Jun-03 to present, low-flow	602480	Low-flow	11-Apr-00	2.90	0.140	0.56	10			HACH_NO3
from Mar-99 to Jun-03.	602712	Low-flow	08-Jan-01	3.30	0.350	1.40	10			HACH_NO3
	603489	Low-flow	28-Mar-01	3.70	0.350	1.40	10			HACH_NO3
	603489	Low-flow	28-Mar-01	3.60	0.350	1.40	10			HACH_NO3
	604107	Low-flow	05-Jul-01	3.70	0.350	1.40	10			HACH_NO3
	604783	Low-flow	03-Oct-01	1.90	0.350	1.40	10			HACH_NO3
	604783	Low-flow	03-Oct-01	2.10	0.350	1.40	10			HACH_NO3
	604985	Low-flow	01-Dec-01	0.84	0.350	1.40	10	J	None	HACH_NO3
	605314	Low-flow	20-Mar-02	2.80	0.200	0.80	10		None	Nitrate_EP
	606627	Conventional	06-Aug-03	2.52	0.0341	0.10	10			SW846 9056
	606842	Conventional	22-Oct-03	2.51	0.0341	0.10	10			SW846 9056
	607104	Conventional	27-Jan-04	2.90	0.054	0.10	10			EPA 300.0
	607420	Conventional	27-Apr-04	2.50	0.054	0.10	10			EPA 300.0
	607699	Conventional	09-Aug-04	2.70	0.054	0.10	10			EPA 300.0
	607935	Conventional	12-Oct-04	2.60	0.054	0.10	10			EPA 300.0
TJA-6	603948	Low-flow	11-Apr-01	2.30	0.350	1.40	10			HACH_NO3
	604110	Low-flow	09-Jul-01	2.00	0.350	1.40	10			HACH_NO3
Well completed 04-Feb-01 in	604110	Low-flow	09-Jul-01	1.90	0.350	1.40	10			HACH_NO3
the regional aquifer.	604927	Low-flow	10-Oct-01	1.50	0.350	1.40	10			HACH_NO3

Refer to footnotes at end of tables.

Summary of Nitrate Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TJA-6 (con't)	604988	Low-flow	04-Dec-01	0.91	0.350	1.40	10	J	None	HACH_NO3
Distance from SWMU 46 is	605317	Low-flow	18-Mar-02	2.20	0.200	0.80	10		None	Nitrate_EP
approximately 350 ft,	606631	Conventional	11-Aug-03	2.17	0.0341	0.10	10			SW846 9056
downgradient.	606846	Conventional	05-Nov-03	2.26	0.0341	0.10	10			SW846 9056
Low-flow sampling from Mar-	607110	Conventional	04-Feb-04	2.50	0.054	0.10	10			EPA 300.0
01 to Jun-03, conventional	607426	Conventional	22-Apr-04	2.40	0.054	0.10	10			EPA 300.0
Jul-03 to present.	607705	Conventional	04-Aug-04	2.50	0.054	0.10	10			EPA 300.0
	607941	Conventional	13-Oct-04	2.50	0.054	0.10	10			EPA 300.0
TJA-7	603949	Low-flow	11-Apr-01	**39.0**	3.50	14.0	10			HACH_NO3
	604111	Low-flow	09-Jul-01	**40.0**	3.50	14.0	10			HACH_NO3
Well complete in 07-Mar-01	604111	Low-flow	09-Jul-01	**40.0**	3.50	14.0	10			HACH_NO3
in the perched aquifer.	604929	Low-flow	10-Oct-01	**41.0**	3.50	14.0	10			HACH_NO3
	604989	Low-flow	01-Dec-01	**27.0**	3.50	14.0	10		None	HACH_NO3
This well is located within the	605318	Low-flow	20-Mar-02	**30.0**	0.200	0.80	10		None	Nitrate_EP
SWMU 46 boundary.	606633	Conventional	12-Aug-03	**22.9**	0.0341	0.10	10	H	HT	SW846 9056
	606848	Conventional	28-Oct-03	**24.5**	0.341	10.0	10	H	HT, J	SW846 9056
Low-flow sampling from Mar-	606872	Conventional	28-Oct-03	**26.0**	NR	0.50	10		P2	EPA 300.0
01 to Jun-03, conventional	607113	Conventional	22-Jan-04	**27.0**	NR	0.50	10			EPA 300.0
Jul-03 to present.	607429	Conventional	30-Apr-04	**24.0**	0.270	0.50	10			EPA 300.0
	607708	Conventional	06-Aug-04	**24.0**	0.270	0.50	10	H	HT, J	EPA 300.0
	607708	Conventional	06-Aug-04	**27.0**	0.054	0.10	10	E	J	EPA 300.0
	607708	Conventional	06-Aug-04	**25.0**	0.270	0.50	10	H	HT, J	EPA 300.0
	607708	Conventional	06-Aug-04	**27.0**	0.054	0.10	10	E	J	EPA 300.0
	607944	Conventional	15-Oct-04	**25.0**	0.270	0.50	10			EPA 300.0
	607944	Conventional	15-Oct-04	**26.0**	0.054	0.10	10	E		EPA 300.0
	607944	Conventional	15-Oct-04	**25.0**	0.054	0.10	10	E		EPA 300.0
	607944	Conventional	15-Oct-04	**25.0**	0.270	0.50	10			EPA 300.0
WYO-1	4704	Conventional	24-Jan-96	2.60	0.050	NR	10		None	353.2
	05738	Conventional	26-Aug-96	4.10	0.068	0.22	10		None	HACH_NO3
Well completed in 27-Aug-95	06167	Low-flow	10-Mar-97	1.50	0.090	0.30	10		None	HACH_NO3
in the regional aquifer.	06098	Low-flow	10-Mar-97	1.11	0.013	NR	10		None	353.1
Plugged and abandoned	06167	Low-flow	10-Mar-97	2.50	0.090	0.30	10		None	HACH_NO3
Jul-01.	06144	Low-flow	05-Jun-97	3.06	0.013	NR	10		None	353.1
	06681	Low-flow	05-Jun-97	2.80	0.056	0.224	10		None	HACH_NO3
Distance from SWMU 46 was	06144	Low-flow	05-Jun-97	2.73	0.013	NR	10		None	353.1
over 0.5 mile and was	06322	Low-flow	01-Oct-97	2.70	0.060	0.22	10			HACH_NO3
upgradient.	510148	Low-flow	09-Dec-97	1.50	0.056	0.22	10			HACH_NO3
	510148	Low-flow	09-Dec-97	1.40	0.056	0.22	10			HACH_NO3
Conventional sampling from	510388	Low-flow	05-Mar-98	2.20	0.0560	0.22	10			HACH_NO3
Aug-95 to Mar-97, low-flow	600164	Low-flow	10-Jun-98	2.50	0.110	0.43	10			HACH_NO3
sampling from Mar-97 to	600626	Low-flow	14-Sep-98	2.90	0.110	0.44	10			HACH_NO3
Jul-01.	600939	Low-flow	01-Dec-98	2.80	0.110	0.44	10			HACH_NO3
	601268	Low-flow	05-Mar-99	2.70	0.110	0.44	10			HACH_NO3

Refer to footnotes at end of tables.

Summary of Nitrate Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
WYO-1 (con't)	601489	Low-flow	14-Jul-99	2.60	0.140	0.56	10			HACH_NO3
	602316	Low-flow	16-Sep-99	2.30	0.140	0.56	10			HACH_NO3
	602316	Low-flow	16-Sep-99	2.00	0.140	0.56	10			HACH_NO3
	602438	Low-flow	01-Dec-99	3.80	0.140	0.56	10			HACH_NO3
	602715	Low-flow	12-Jan-01	3.00	0.350	1.40	10			HACH_NO3
	603492	Low-flow	19-Mar-01	4.00	0.350	1.40	10			HACH_NO3
	604112	Low-flow	21-Jun-01	2.10	0.350	1.40	10			HACH_NO3
WYO-2	4704	Conventional	24-Jan-96	2.70	0.050	NR	10		None	353.2
	05738	Conventional	26-Aug-96	3.80	0.300	1.00	10		None	HACH_NO3
Well completed in 27-Aug-95 in the perched aquifer. Plugged and abandoned Jul-01.	06167	Low-flow	10-Mar-97	2.80	0.090	0.30	10		None	HACH_NO3
	06098	Low-flow	10-Mar-97	1.16	0.013	NR	10		None	353.1
	06167	Low-flow	10-Mar-97	2.30	0.090	0.30	10		None	HACH_NO3
	06681	Low-flow	05-Jun-97	3.00	0.056	0.224	10		None	HACH_NO3
	06325	Low-flow	01-Oct-97	2.90	0.013	0.25	10			EPA 353.1
Distance from SWMU 46 was over 0.5 mile and was upgradient.	06322	Low-flow	01-Oct-97	1.90	0.120	0.44	10			HACH_NO3
	06325	Low-flow	01-Oct-97	2.70	0.013	0.25	10			EPA 353.1
	510150	Low-flow	09-Dec-97	1.40	0.056	0.22	10			HACH_NO3
	510395	Low-flow	06-Mar-98	2.60	0.056	0.22	10			HACH_NO3
Conventional sampling from Aug-95 to Mar-97, low-flow sampling from Mar-97 to Jul-01.	600167	Low-flow	10-Jun-98	2.80	0.110	0.43	10			HACH_NO3
	600629	Low-flow	14-Sep-98	3.30	0.110	0.44	10			HACH_NO3
	600942	Low-flow	01-Dec-98	2.70	0.110	0.44	10			HACH_NO3
	601265	Low-flow	05-Mar-99	2.60	0.110	0.44	10			HACH_NO3
	601494	Low-flow	19-Jul-99	3.00	0.140	0.56	10			HACH_NO3
	602301	Low-flow	16-Sep-99	2.30	0.140	0.56	10			HACH_NO3
	602441	Low-flow	01-Dec-99	4.50	0.560	2.20	10			HACH_NO3
	602441	Low-flow	01-Dec-99	5.00	0.560	2.20	10			HACH_NO3
	602716	Low-flow	16-Jan-01	3.00	0.350	1.40	10			HACH_NO3
	602716	Low-flow	16-Jan-01	2.90	0.350	1.40	10			HACH_NO3
	604113	Low-flow	21-Jun-01	4.00	0.350	1.40	10			HACH_NO3
WYO-3	604990	Low-flow	28-Nov-01	2.10	0.350	1.40	10		None	HACH_NO3
Well was completed 22-Jun-01 in the regional aquifer.	605319	Low-flow	02-Apr-02	1.90	0.200	0.80	10			Nitrate_EP
	605319	Low-flow	02-Apr-02	1.80	0.200	0.80	10			Nitrate_EP
Distance from SWMU 46 is over 0.5 mile and is upgradient.	606636	Conventional	13-Aug-03	1.71	0.0341	0.10	10	H	HT	SW846 9056
	606850	Conventional	29-Oct-03	1.80	0.0341	0.10	10			SW846 9056
	606873	Conventional	29-Oct-03	2.00	NR	0.10	10		P2	EPA 300.0
Low-flow sampling from Aug-01 to Jun-03, conventional from Jul-03 to present.	607117	Conventional	21-Jan-04	2.00	NR	0.10	10			EPA 300.0
	607432	Conventional	28-Apr-04	1.90	0.054	0.10	10			EPA 300.0
	607713	Conventional	11-Aug-04	2.00	0.054	0.10	10			EPA 300.0
	607948	Conventional	08-Oct-04	2.00	0.054	0.10	10			EPA 300.0
WYO-4	604991	Low-flow	28-Nov-01	1.10	0.350	1.40	10	J	None	HACH_NO3
	604991	Low-flow	28-Nov-01	1.20	0.350	1.40	10	J	None	HACH_NO3
Well was completed 22-Jun-01 in the perched aquifer.	605320	Low-flow	03-Apr-02	2.90	0.200	0.80	10			Nitrate_EP
	605320	Low-flow	03-Apr-02	2.90	0.200	0.80	10			Nitrate_EP

Refer to footnotes at end of tables.

Summary of Nitrate Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
WYO-4 (con't)	606638	Conventional	14-Aug-03	2.54	0.0341	0.10	10			SW846 9056
Distance from SWMU 46 is over 0.5 mile and is upgradient.	606852	Conventional	03-Nov-03	2.86	0.0341	0.10	10			SW846 9056
	606874	Conventional	03-Nov-03	3.00	NR	0.10	10			EPA 300.0
	607120	Conventional	03-Feb-04	2.90	0.054	0.10	10			EPA 300.0
	607120	Conventional	03-Feb-04	2.90	0.054	0.10	10			EPA 300.0
Low-flow sampling from Aug-01 to Jun-03, conventional from Jul-03 to present.	607435	Conventional	30-Apr-04	2.70	0.054	0.10	10			EPA 300.0
	607435	Conventional	30-Apr-04	2.70	0.054	0.10	10			EPA 300.0
	607716	Conventional	03-Aug-04	2.80	0.054	0.10	10			EPA 300.0
	607716	Conventional	03-Aug-04	2.80	0.054	0.10	10			EPA 300.0
	607951	Conventional	06-Oct-04	2.80	0.054	0.10	10		P2	EPA 300.0
	607951	Conventional	06-Oct-04	2.80	0.054	0.10	10		P2	EPA 300.0

Refer to footnotes at end of tables.

Summary of Nitrate plus Nitrite Results
Tijeras Arroyo Groundwater Investigation

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TA2-SW1-320	606615	Conventional	24-Jul-03	**25.0**	0.2500	1.25	10			EPA 353.1
Well was completed 30-Nov-92 in the perched aquifer.	606830	Conventional	11-Nov-03	**24.0**	0.5000	2.50	10			EPA 353.1
	607084	Conventional	29-Jan-04	**25.0**	0.5000	2.50	10			EPA 353.1
Distance from SWMU 46 is approximately 0.5 mile and is upgradient.	607400	Conventional	14-May-04	**24.2**	3.60	50	10	H	HT, J	353.1
	607679	Conventional	27-Jul-04	**24.0**	3.60	50	10			353.1
Conventional sampling prior to Mar-97, and from Jun-03 to present, low-flow Ma4-97 to Jun-03.	607915	Conventional	04-Oct-04	**25.1**	0.0300	0.200	10		A2, J	EPA 353.1
	608119	Conventional	17-Jan-05	**20.1**	0.1500	1.00	10			EPA 353.1
	608581	Conventional	09-May-05	**18.9**	0.0300	0.200	10	B		EPA 353.1
TA2-W-19	606619	Conventional	04-Aug-03	**10.4**	0.1000	0.500	10			EPA 353.1
Well completed 9-Nov-95 in the perched aquifer.	606834	Conventional	07-Oct-03	9.50	0.1000	0.500	10			EPA 353.1
	607090	Conventional	13-Jan-04	10.0	0.0500	0.250	10		A2, J	EPA 353.1
Distance from SWMU 46 is approximately 0.5 mile, cross-gradient.	607685	Conventional	27-Jul-04	9.53	0.0036	0.050	10			353.1
	607406	Conventional	27-Apr-04	9.23	0.0359	0.500	10			353.1
	607406	Conventional	27-APR-04	9.39	0.0359	0.500	10			353.1
Conventional sampling method prior to Mar-97, and Jun-03 to present, low-flow from Mar-97 to Jun-03.	607921	Conventional	04-Oct-04	**10.3**	0.0300	0.200	10		A2, J	EPA 353.1
	607921	Conventional	04-Oct-04	9.93	0.0300	0.200	10		A2, J	EPA 353.1
	608123	Conventional	04-Jan-05	7.57	0.0300	0.200	10			EPA 353.1
	608123	Conventional	04-Jan-05	7.64	0.0300	0.200	10			EPA 353.1
	607406	Conventional	27-Apr-04	9.39	0.0359	0.500	10			353.1
TJA-3	600954	Conventional	15-Dec-98	2.97	0.0130	0.150	10		None	EPA 353.1
Well completed 31-Aug-98 in the regional aquifer.	603955	Low-flow	28-Mar-01	2.90	0.0069	0.250	10		None	EPA 353.1
	604806	Low-flow	03-Oct-01	3.12	0.0207	0.150	10	B	None	EPA 353.1
	605117	Low-flow	03-Dec-01	2.73	0.0207	0.150	10	B	None	EPA 353.1
	605328	Low-flow	20-Mar-02	2.75	0.0345	0.250	10			EPA 353.1
This well is located within the SWMU 46 boundary.	606627	Conventional	06-Aug-03	2.55	0.0100	0.050	10		B2, J	EPA 353.1
	606842	Conventional	22-Oct-03	2.75	0.0500	0.250	10			EPA 353.1
	607103	Conventional	27-Jan-04	1.89	0.0100	0.050	10			EPA 353.1
Conventional sampling method prior to Mar-99, and Jun-03 to present, low-flow from Mar-99 to Jun-03.	607418	Conventional	27-Apr-04	2.80	0.0359	0.500	10			353.1
	607698	Conventional	09-Aug-04	2.52	0.0144	0.200	10			353.1
	607934	Conventional	12-Oct-04	3.12	0.0030	0.020	10			EPA 353.1
	608131	Conventional	05-Jan-05	3.05	0.0030	0.020	10			EPA 353.1
	608588	Conventional	18-May-05	2.82	0.0030	0.020	10	B		EPA 353.1
TJA-6	604058	Low-flow	09-Jul-01	1.27	0.0069	0.050	10			EPA 353.1
Well completed 04-Feb-01 in the regional aquifer.	606631	Conventional	11-Aug-03	2.49	0.0300	0.150	10			EPA 353.1
	606846	Conventional	05-Nov-03	2.50	0.0500	0.250	10		B2, J	EPA 353.1
Distance from SWMU 46 is approximately 350 ft, downgrdient.	607109	Conventional	04-Feb-04	2.35	0.0500	0.250	10			EPA 353.1
	607424	Conventional	22-Apr-04	2.42	0.0359	0.500	10		B2, J	353.1
Low-flow sampling from	607704	Conventional	04-Aug-04	2.20	0.0144	0.200	10			353.1

Refer to footnotes at end of tables.

Summary of Nitrate plus Nitrite Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
TJA-6 (con't) Mar-01 to Jun-03, conventional Jul-03 to present.	607940	Conventional	13-Oct-04	2.94	0.0030	0.020	10			EPA 353.1
	608134	Conventional	06-Jan-05	2.88	0.0030	0.020	10			EPA 353.1
	608590	Conventional	16-May-05	2.62	0.0030	0.020	10	B		EPA 353.1
TJA-7 Well complete in 07-Mar-01 in the perched aquifer. This well is located within the SWMU 46 boundary. Low-flow sampling from Mar-01 to Jun-03, conventional Jul-03 to present.	604059	Low-flow	09-Jul-01	**30.5**	0.0069	2.50	10			EPA 353.1
	606633	Conventional	12-Aug-03	**26.0**	0.5000	2.50	10			EPA 353.1
	606848	Conventional	28-Oct-03	**25.0**	0.2500	1.25	10			EPA 353.1
	607112	Conventional	22-Jan-04	**29.8**	0.2500	1.25	10			EPA 353.1
	607427	Conventional	30-Apr-04	**17.9**	0.2870	4.00	10			353.1
	607707	Conventional	06-Aug-04	**24.3**	0.1440	2.00	10			353.1
	607707	Conventional	06-Aug-04	**24.6**	0.1440	2.00	10			353.1
	607943	Conventional	15-Oct-04	**27.1**	0.0300	0.200	10			EPA 353.1
	607943	Conventional	15-Oct-04	**23.2**	0.0300	0.200	10			EPA 353.1
	608138	Conventional	18-Jan-05	**21.2**	0.0300	0.200	10			EPA 353.1
	608138	Conventional	18-Jan-05	**21.7**	0.0300	0.200	10			EPA 353.1
	608591	Conventional	13-May-05	**22.3**	0.0300	0.200	10	B		EPA 353.1
WYO-1 Well completed in 27-Aug-95 in the regional aquifer. Plugged and abandoned Jul-01. Distance from SWMU 46 was over 0.5 mile and was upgradient. Conventional sampling from Aug-95 to Mar-97, low-flow sampling from Mar-97 to Jul-01.	601490	Low-flow	14-Jul-99	1.83	0.0086	0.050	10		None	EPA 353.1
	602317	Low-flow	16-Sep-99	3.10	0.0086	0.250	10		None	EPA 353.1
	602483	Low-flow	01-Jun-00	2.42	0.0090	0.050	10			EPA 353.1
WYO-2 Well completed in 27-Aug-95 in the perched aquifer. Plugged and abandoned Jul-01. Distance from SWMU 46 was over 0.5 mile and was upgradient. Conventional sampling from Aug-95 to Mar-97, low-flow sampling from Mar-97 to Jul-01.	601493	Low-flow	19-Jul-99	1.94	0.0086	0.050	10		None	EPA 353.1
	602442	Low-flow	01-Dec-99	3.15	0.0086	0.250	10		None	EPA 353.1
	602717	Low-flow	16-Jan-01	2.90	0.0069	0.250	10		None	EPA 353.1
WYO-3 Well was completed 22-Jun-01 in the regional	605331	Conventional	02-Apr-02	1.75	0.0345	0.250	10			EPA 353.1
	606636	Conventional	13-Aug-03	1.92	0.0100	0.050	10			EPA 353.1

Refer to footnotes at end of tables.

Summary of Nitrate plus Nitrite Results
Tijeras Arroyo Groundwater Investigation (Continued)

Well ID	ARCOC	Sampling Method	Sample Date	Result[a] (mg/L)	MDL[b] (mg/L)	PQL[c] (mg/L)	MCL[d] (mg/L)	Laboratory Qualifier[e]	Validation Qualifier[f]	Analytical Method[g]
WYO-3 (con't) aquifer. Distance from SWMU 46 is over 0.5 mile and is upgradient. Low-flow sampling from Aug-01 to Jun-03, conventional from Jul-03 to present.	606850	Conventional	29-Oct-03	1.61	0.0100	0.050	10			EPA 353.1
	607116	Conventional	21-Jan-04	1.38	0.0100	0.050	10		B2, J	EPA 353.1
	607430	Conventional	28-Apr-04	2.12	0.0359	0.500	10			353.1
	607712	Conventional	11-Aug-04	1.89	0.0144	0.200	10			353.1
	607947	Conventional	08-Oct-04	2.38	0.0030	0.020	10			EPA 353.1
	608141	Conventional	07-Jan-05	2.04	0.0030	0.020	10			EPA 353.1
	608593	Conventional	17-May-05	2.08	0.0030	0.020	10	B		EPA 353.1
WYO-4	605121	Low-flow	28-Nov-01	2.32	0.0069	0.050	10		None	EPA 353.1
Well was completed 22-Jun-01 in the perched aquifer. Distance from SWMU 46 is over 0.5 mile and is upgradient. Low-flow sampling from Aug-01 to Jun-03, conventional from Jul-03 to present.	605765	Low-flow	25-Oct-02	1.72	0.0100	0.050	10	B		EPA 353.1
	606638	Conventional	14-Aug-03	2.72	0.0100	0.050	10			EPA 353.1
	606638	Conventional	14-Aug-03	2.70	0.0100	0.050	10			EPA 353.1
	606852	Conventional	03-Nov-03	2.20	0.0100	0.050	10			EPA 353.1
	606852	Conventional	03-Nov-03	2.21	0.0100	0.050	10			EPA 353.1
	607119	Conventional	03-Feb-04	2.06	0.0100	0.050	10		A2, J	EPA 353.1
	607119	Conventional	03-Feb-04	2.11	0.0100	0.050	10			EPA 353.1
	607119	Conventional	03-Feb-04	2.09	0.0100	0.050	10		A2, J	EPA 353.1
	607119	Conventional	03-Feb-04	2.12	0.0100	0.050	10			EPA 353.1
	607433	Conventional	30-Apr-04	2.81	0.0359	0.500	10			353.1
	607433	Conventional	30-Apr-04	2.86	0.0359	0.500	10			353.1
	607715	Conventional	03-Aug-04	2.04	0.0144	0.200	10		B2, J	353.1
	607715	Conventional	03-Aug-04	2.71	0.0144	0.200	10		B2, J	353.1
	607950	Conventional	06-Oct-04	3.30	0.0030	0.020	10			EPA 353.1
	607950	Conventional	06-Oct-04	3.29	0.0030	0.020	10			EPA 353.1
	608142	Conventional	11-Jan-05	3.18	0.0030	0.020	10	B		EPA 353.1
	608142	Conventional	11-Jan-05	3.18	0.0030	0.020	10	B		EPA 353.1
	608594	Conventional	03-May-05	2.86	0.0030	0.020	10	B		EPA 353.1

Refer to footnotes at end of tables.

Footnotes for ***Tijeras Arroyo Groundwater Investigation***

[a]Result
- Values in **bold** exceed the established MCL.
- µg/L = micrograms per liter
- mg/L = milligrams per liter

[b]MDL
Method detection limit. The minimum concentration that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.
- NR = not reported

[c]PQL
Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.
- NR = not reported

[d]MCL
- Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b))., and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20MAC 7.1).

[e]Lab Qualifier
If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.
B = Analyte is detected in associated laboratory method blank.
E = Value above quantitation range.
J = Amount detected is below the practical quantitation limit (PQL).
H = Holding time was exceeded for associated analysis.

[f]Validation Qualifier
If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.
A = Laboratory accuracy and or bias measurements for the associated laboratory control and/or laboratory control duplicate samples do not meet acceptance criteria
B = Analyte present in associated laboratory method blank sample.
HT = The holding time was exceeded for the associated sample analysis.
J = The associate value is an estimated quantity.
P1 = Laboratory precision measurements for the matrix spike and/or matrix spike duplicate do not meet acceptance criteria.
P2 = Insufficient quality control data to determine laboratory precision.
None = Data was not validated.
R = The data are unusable for their intended purpose.
UJ = Analyte was qualified as not detected, and is an estimated value.

[g]Analytical Method
- U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd ed.
- U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0," EPA-600/4-84-017.

ANNEX B
POTENTIOMETRIC MAPS

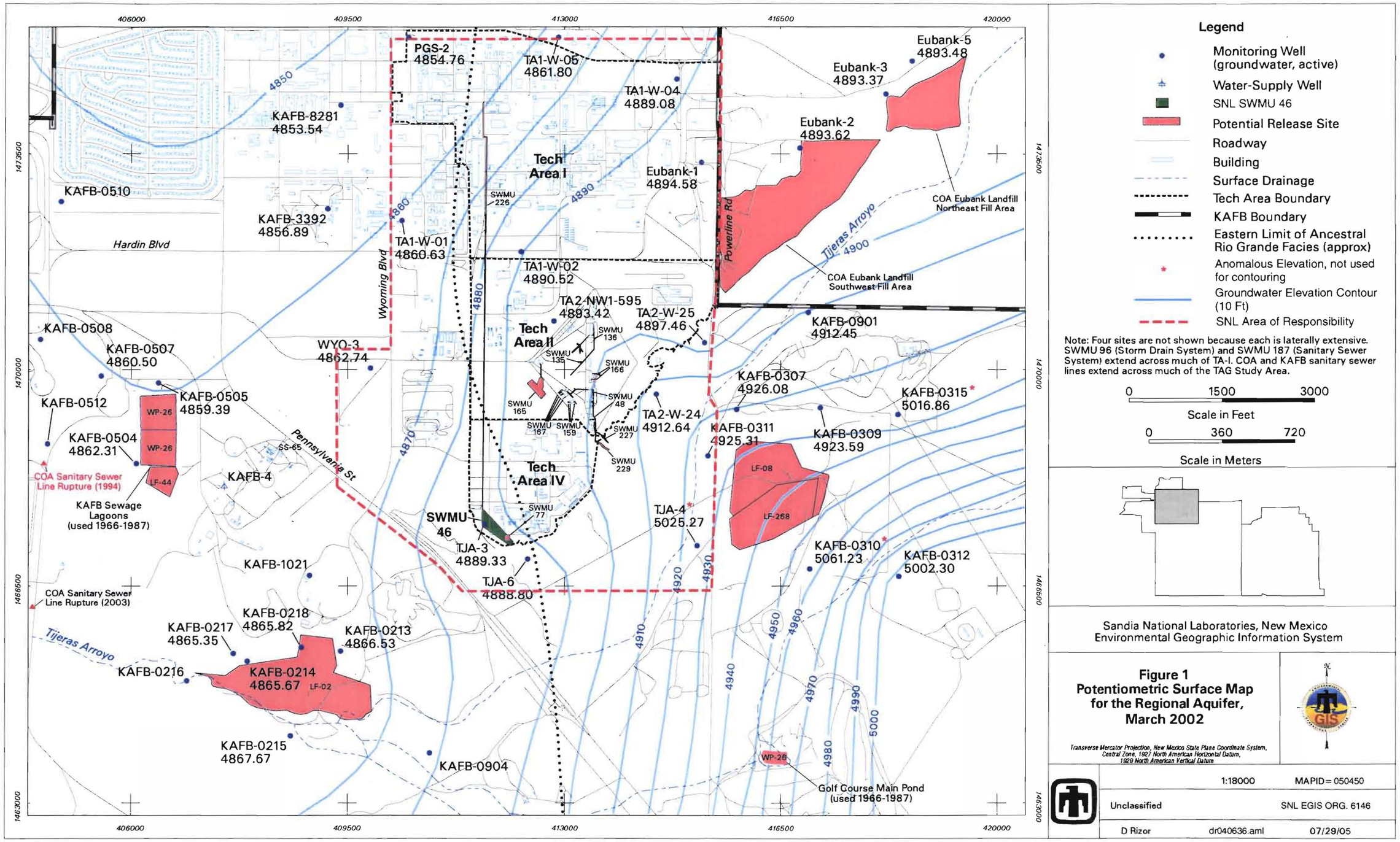

Figure 1. Potentiometric Surface Map for the Regional Aquifer, March 2002.

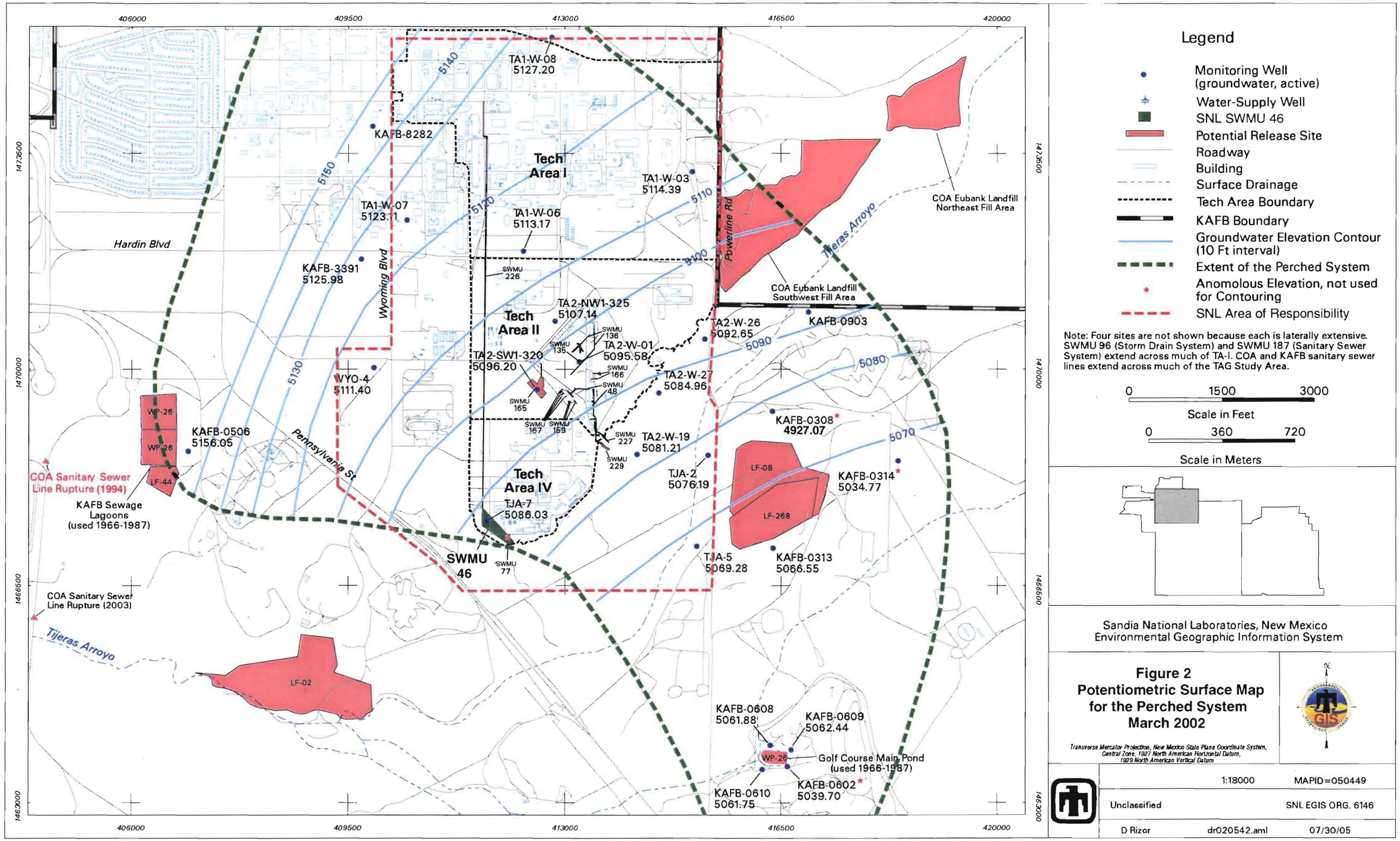

Figure 2. Potentiometric Surface Map for the Perched System, March 2002.